AMSAT News Service Weekly Bulletins
Issue: ANS-275
Date: 1993-10-01
Sources: amsat-ans-1993-ans-275-weekly.txt

SB SAT @ AMSAT $ANS-275.01
NEW CROP OF OSCARS ARE BORN!

HR AMSAT NEWS SERVICE BULLETIN 275.01 FROM AMSAT HQ
SILVER SPRING, MD OCTOBER 1, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-275.01

A New "Crop" of OSCARs On-Orbit

As a result of last week's successful launch of SPOT-3 on ARIANE mission V-59, (26-SEP-93 01:45 UTC) three, and possibly four, amateur radio satellites have been "born." Late this week, two were given the names ITAMSAT-OSCAR 26 and AMRAD-OSCAR 27. The Portugese builders of POSAT are determining whether or not they will activate the amateur package on that otherwise commercial satellite. This is why there maybe three, or perhaps four amateur satellites. The AMSAT News Service (ANS) will carry addition-al information when available. At the time this bulletin went to press, the Korean builders of KITSAT-B have not yet designated it an OSCAR, al-though it is expected that they will do so shortly.

These new series of amateur radio satellites will ensure that radio amateurs will have reliable "store-and-forward" messaging capability for many years to come. Also, the imaging cameras on POSAT-1, if it is made available to amateurs, and KITSAT-B will provide many excellent images of the earth. To date, there has been no "official" announcement about the release of these satellites for general use. Each of the groups involved with the operation of their respective satellite are currently performing "engineering" check-outs. Please watch in the ANS bulletins for an announcement of the commencement of general amateur radio operations on each of these satellites.

The following table is a summary of the frequencies of each of these new spacecraft.

	UPLINK	DOWNLINK	BAUD
KITSAT-B	145.870 MHz	435.175 MHz	9600
	145.980 MHz	436.500 MHz	9600
ITAMSAT-OSCAR-26 (IO-26)	145.875 MHz	435.867 MHz	1200/9600
	145.900 MHz	435.822 MHz	
	145.925 MHz		
	145.950 MHz		
AMRAD-OSCAR-27 (AO-27)	145.850 MHz	436.800 MHz	300-9600
POSAT-1	145.925 MHz	435.250 MHz	9600
	145.975 MHz	435.275 MHz	

/EX
SB SAT @ AMSAT $ANS-275.02
MORE INFO ABOUT AMRAD-OSCAR-27

HR AMSAT NEWS SERVICE BULLETIN 275.02 FROM AMSAT HQ
SILVER SPRING, MD OCTOBER 1, 1993
TO ALL RADIO AMATEURS BT

BID: $ANS-275.02

AMRAD Announces the Launch of AMRAD-OSCAR-27 (AO-27)

The Amateur Radio Research And Development Corporation (AMRAD) of McLean Virginia is proud to announce the launch and activation of a new Orbiting Satellite Carrying Amateur Radio (OSCAR) named AMRAD-OSCAR-27 (AO-27). Launch occurred at 01:45:00 UTC Sunday, 26-SEP-93 aboard the Ariane V-59 mission from the Guyana Space Center in Kourou, French Guiana. AO-27 was inserted into its orbit approximately 24 minutes later as one of seven satellites launched on this mission. AO-27 was activated on the next orbit as it passed over the command station near Washington, D.C., and was heard by AMRAD members throughout the area.

AO-27 is a secondary amateur communications payload carried aboard the EYESAT-1 commercial MICROSAT satellite built by Interferometrics Inc. of Vienna, Virginia. The amateur equipment aboard the satellite was constructed by members of AMRAD, a technically-oriented, non-profit organization of radio amateurs based in the Virginia suburbs of Washington, D.C., to meet the needs of amateurs for a platform to conduct digital satellite communications experiments. The payload is presently transmitting at 1200 bps AFSK on a frequency of 436.800 MHz on a part-time schedule during the on-orbit checkout and commissioning of the parent EYESAT-1 satellite. AMRAD members will be preparing information for future release on receiving and decoding telemetry from the payload and on the progress of their experiments.

AMRAD congratulates the KITSAT and ITAMSAT teams and the University of Surrey on the launch and activation of their satellites. AMRAD thanks AMSAT-NA for the technical support and encouragement they provided during construction and preparation of the AMRAD OSCAR payload. For further information about AMRAD and the AMRAD OSCAR-27 payload, please contact AMRAD at PO Drawer 6148, McLean Virginia, USA, 22106-6148, or call the AMRAD BBS in McLean, Virginia, at (703) 734-1387.

/EX
SB SAT @ AMSAT $ANS-275.03
AMSAT OPS NET SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 275.03 FROM AMSAT HQ
SILVER SPRING, MD OCTOBER 1, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-275.03

Current AMSAT Operations Net Schedule For AO-13

AMSAT Operations Nets are planned for the following times. Mode-B Nets are conducted on AO-13 on a downlink frequency of 145.950 MHz. If, at the start of the OPS Net, the frequency of 145.950 MHz is being used for a QSO, OPS Net enthusiasts are asked to move to the alternate frequency of 145.955 MHz.

Date	UTC	Mode	Phs	NCS	Alt NCS
9-Oct-93	1500	B	101	W9ODI	N7NQM
23-Oct-93	1315	B	154	WB6LLO	WA5ZIB
30-Oct-93	1300	B	62	W5IU	WB6LLO

Any stations with information on current events would be most welcomed. Also, those interested in discussing technical issues or who have questions about any particular aspect of OSCAR statellite operations, are encouraged to join the OPS Nets. In the unlikely event that either the Net Control Station (NCS) or the alternate do not call on frequency, any participant is invited to act as the NCS.

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Slow Scan Television on AO-13

SSTV sessions will be held on immediately after the OPS Nets a downlink
on a Mode-B downlink frequency 145.960 MHz.

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SB SAT @ AMSAT   $ANS-275.04
WEEKLY OSCAR STATUS REPORTS

HR AMSAT NEWS SERVICE BULLETIN 275.04 FROM AMSAT HQ
SILVER SPRING, MD OCTOBER 1, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-275.04

Weekly OSCAR Status Reports: 01-OCT-93

AO-13: Current Transponder Operating Schedule:
L QST *** AO-13 TRANSPONDER SCHEDULE ***  1993 Aug 25-Oct 25
Mode-B  : MA   0 to MA  90 !
Mode-BS : MA  90 to MA 120 !
Mode-S  : MA 120 to MA 145 !<- S transponder; B trsp. is OFF
Mode-S  : MA 145 to MA 150 !<- S beacon only
Mode-BS : MA 150 to MA 180 !        Blon/Blat 180/0
Mode-B  : MA 180 to MA 256 !
Omnis   : MA 230 to MA  40 !  Move to attitude 210/0, Oct 25
Continuous up-to-date information about AO-13 operations is always
available on the beacons at 145.812 MHz and 2400.646 MHz in CW, RTTY and
400 bps PSK.  Also, these bulletins are also posted to INTERNET, ANS
bulletins, Packet, PACSATs, etc., and can also be found in many
international newsletters.  [G3RUH/DB2OS/VK5AGR]

AO-16: Operating normally. [WH6I]

UO-22: Operating normally. [WH6I]

KO-23: KO-23 had an OBC crash earlier in the week and, while the KAIST
      Ground Controllers were working with their new satellite (KO-25)
      they had to cope with this bird's failure too.  There was some
      difficulty in gaining control of the bird again, and in the process
      the RAM disk was lost.  However, the BBS is now up and running and
      busy as usual.  [WH6I]

IO-26: This new satellite has been heard and is sending some frames. WH6I
       has seen telemetry coming down at 1200 baud PSK format similar to
       that of AO-16. [WH6I]

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly
OSCAR status reports.  If you have a favorite OSCAR which you work on a
regular basis and would like to contribute to this bulletin, please send
your observations to WD0HHU at his CompuServe address of 70524,2272, on
INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO
area, WD0HHU @ W0LJF.#NECO.CO.USA.NOAM.  Also, if you find that the current
set of orbital elements are not generating the correct AOS/LOS times at
your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL.  The information you
provide will be of value to all OSCAR enthusiasts.

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SB SAT @ AMSAT   $ANS-275.05
AMSAT-NA SPACE SYMPOSIUM INFO

HR AMSAT NEWS SERVICE BULLETIN 275.05 FROM AMSAT HQ
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SILVER SPRING, MD OCTOBER 1, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-275.05

AMSAT-NA Space Symposium Set For 7-11 OCT In Arlington, TX

Arrangements are being finalized for the AMSAT-NA Annual Meeting and Space Symposium '93. The proceedings are at the printers and the speakers list is full (30 Speakers!). The Saturday evening Banquet Program has now been arranged and will be very entertaining. There is still time to register. Call AMSAT Headquarters at (301)589-6062 for registration. Pre-registration deadline is 1-OCT-93. Hotel reservations can be made at (800) 453-7909 or (817) 640-4142. Be sure to mention you are with AMSAT.

If you are coming to the Surplus Store Tour on 7 October, please be sure to indicate this. If you are driving to Arlington and can help provide transportation for Thursday and/or Friday evening please so indicate.

This promises to be one of the best Symposiums yet so don't miss it. See you in Arlington, TX, 7-10 October 93!

Keith Pugh, W5IU

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SB SAT @ AMSAT $ANS-275.06
ANS LANDLINE BBS

HR AMSAT NEWS SERVICE BULLETIN 275.06 FROM AMSAT HQ
SILVER SPRING, MD OCTOBER 1, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-275.06

Some Landline BBSs That Carry AMSAT News Service (ANS) Bulletins & KEPS

CompuServe's Hamnet
Sysop: Scott Loftness (W3VS)
<760703.407@CompuServe.COM>

Western Pacific BBS
Phone #: 415-453-2854
Up to 14,400bps V.32bis
Sysop: Daniel C. Dufficy (KH8AF)
>INTERNET:kh8af@crl.com

The ARRL BBS
Phone #: 203-666-0578
Sysop: Luck Hurder (KY1T)
>INTERNET:lhurder@arrl.org

California Amatuer Radio Emergency Services (CARES) BBS
Phone #: 916-323-4826
Sacramento, CA
Sysop: Gorden Fuller (WB6OVH)
>INTERNET:GFULLER@SFOVMICI.VNET.IBM.COM

!!amsa@sats&stats!! bbs
Phone #: 201-261-2780
New Jersy
Up to 14,400bps
Sysop: Mel Roman (KA2UPD)
>INTERNET:70712.1050@CompuServe.COM

HAM>LINK<RBBS

Phone #: 612-426-0000
Minnesota
Up to 9600bps
Sysop: John Desmond (K0TG)
>INTERNET:k0tg@amsat.org

   OCA/AMSAT BBS
Phone #: 714-738-4331
Fullerton, CA
UP to 14,400bps
Sysop: John Wisniowski (N6DBF)
>INTERNET:n6dbf@amsat.org
or at CompuServe 70233,75

   DRIG/AMSAT BBS
Phone #: 214-394-7438
Dallas, TX
UP to 14,400bps
Sysop: Jeff Wallach (N5ITD)

If you have a BBS and would like to join the AMSAT BBS Network, N6DBF would like to hear from you. I need to know the name of your BBS, Phone number, Location (city, state), Baud rate, Sysop's name and callsign, and your INTERNET and/or CompuServe address. Also, what AMSAT, ARRL, etc. files do you post each week.
     Contact:
                          CompuServe at: 70233,75
                          Internet at: >INTERNET:n6dbf@amsat.org
                          or at N6DBF's callbook address

* Please note: The AMSAT BBS Network is a telephone (BBS) network, not a packet (PBBS) network.

73, John Wisniowski (N6DBF)
     AMSAT NA, BBS Coordinator

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SB SAT @ AMSAT $ANS-275.07
G3IOR REPORTS ABOUT RS & MIR

HR AMSAT NEWS SERVICE BULLETIN 275.07 FROM AMSAT HQ
SILVER SPRING, MD OCTOBER 1, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-275.07

G3IOR Provides Some Interesting News About RS-10/11, RS-12/13 & MIR

The Russian RS-1 satellite, launched in October 1978 is now 15 years old, but still giving signals. It's battery went open circuit soon after launch, but the spacecraft's 29.401 MHz beacon can still be heard sending "55" when the solar cells are in full sunlight. Sadly, the power is insufficient to provide that needed to operate the Mode-A transponder.

Nico Janssen (PA0DLO) recently visited the Radio Sputnik ground command station, meeting Leonid Labutin (UA3CR), his son Evgeny (RA3APR), Sergei Samburov (RV3DR), and the operators of RS3A. They passed on the following information on the satellites.

For a number of technical reasons, command problems, interference and the like, the radio amateur satellite systems RS 10/11 and RS 12/13 cannot presently be switched to modes other than those now in use. Consequently for the immediate future RS-10 may be expected to continue to operate in Mode-A (2M uplink and 10M downlink) and RS-12 in Mode-K (15M uplink and 10M downlink). RS-11 and RS-13 will remain switched off and in "standby" mode.

The new Russian amateur satellite system RS-15 is now complete and ready for launch. It will be built into another Cosmos navigation satellite, similar to the navigation satellite Cosmos-2123 that houses RS-12/13. It is not known exactly when the launch of the satellite will occur, but as soon as an older satellite in this series of navigation satellites reaches the end of its operational life, the new satellite, with RS-15, will be launched.

There are now no plans for any further RS satellites after RS-15, and only project that the RS team is involved in is the voice experiment satellite VOXSAT. In this project the Russian team will work together with AMSAT-LU to build this amateur satellite system also to be built into a Russian satellite.

News on MIR

The present crew members of MIR, Vasily Tsibliyev and Aleksander Serebrov do not have personal amateur radio licenses, thus they do not have their own call signs while manning MIR. However, they do have permission to use the amateur radio station in MIR, using the general MIR call sign R0MIR for speech and R0MIR-1 for the onboard packet radio Personal Message System (PMS).

Since all Russian cosmonauts will now be given amateur radio training by Sergei (RV3DR) as a fixed part of their cosmonaut training, we may confidently expect the amateur radio station in MIR to be active continuously as long as cosmonauts are on board the space station. Future trained cosmonauts include Valeri Poliakov (U3MIR), Viktor Afanasyev (U9MIR) and Yuri Usachov (R3MIR).

Sergei (RV3DR) is only involved in training the Russian cosmonauts, so he recommends that western amateur radio organizations take care of the amateur radio training of the coming visiting cosmonauts preparing for a stay in MIR. Also, to make the amateur radio activity of a western cosmonaut in MIR as effective as possible Sergei suggests to have the cosmonaut carry out a specific amateur experiment or take some new equipment to MIR, such as the microphone with voice memory taken by the German cosmonaut Flade.

Plans are afoot to change MIR's amateur radio equipment. In the future not only 2M but also 70cm and even 23cm operation can be expected. ATV equipment for use aboard the space station is presently being developed in Germany.

73, Pat, G3IOR @ GB7VLS

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